

## SPECIAL OVEREXPANDED FLEXIBLE POLYOLEFIN TUBING 4 : 1 Shrink Ratio



RoHS Compliant

### TYPICAL FEATURES

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| <p>1) SUMITUBE® B2 (4X) is a flexible, flame-retarded heat-shrinkable polyolefin tubing, which is specially overexpanded (4:1 expansion ratio) with minimal longitudinal change (5% maximum). It meets the material and functional requirements of AMS-DTL-23053/5, Class 1 Overexpanded, with exception to wall thickness.</p> <p>2) Shrink temperature is 90°C.</p> <p>3) Operating temperature range is -55°C to +135°C and up to 200°C for short time durations.</p> | <p>4) Recommended for special purpose applications such as cable jacket retrofit or repair and electrical insulation of wire assemblies that have over sized components and connectors. Especially noteworthy is the minimum longitudinal change in length of 5% maximum after recovery, a unique feature not normally found in 4 : 1 shrink ratio tubing.</p> <p>5) For continuous lengths on spools, see Sumitube® B2(4XC).</p> |
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### STANDARD SIZES

SIZE	INSIDE DIAMETER AS SUPPLIED (MIN)		INSIDE DIAMETER AFTER RECOVERY (MAX)		WALL THICKNESS AFTER RECOVERY (NOM)	
	INCH	(MM)	INCH	(MM)	INCH	(MM)
1	1.000	25.4	.260	6.6	.059	1.50
1 1/2	1.500	38.1	.375	9.5	.059	1.50
2	2.000	50.4	.500	12.7	.059	1.50
3	3.000	76.2	.750	19.1	.059	1.50
4	4.000	101.6	1.000	25.4	.059	1.50

**Standard Colors:** Black only  
**Standard Package:** 4 feet (for 1" to 2")  
 3 feet (for 3" or 4")  
**How to Order:** (Type of material) (Size) (Color) (Packaging)  
**Example:** B2 (4X) 1.00 Black 4'

## B2 (4X) SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
<b>Physical:</b> Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex. (-55°C) Heat shock (250°C 4 hrs.) Heat resistance (175°C 168 hrs.) Elongation (%) Secant modulus (psi) Longitudinal change (%)	ASTM D638 ASTM D638 ASTM D792 AMS-DTL-23053 AMS-DTL-23053  ASTM D638 ASTM D882 AMS-DTL-23053	1500 min. 200 min. 1.35 max. no cracking no cracking  100 min. 2.5 X 10 <sup>4</sup> max. ±5
<b>Electrical:</b> Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1.0 X 10 <sup>14</sup> min.
<b>Chemical:</b> Corrosion (175°C 16 hrs.) Water absorption (%) Fluid resistance (23°C, 24 hrs.) Tensile strength (psi) Flammability Shrink temperature, nominal	AMS-DTL-23053 ASTM D570  AMS-DTL-23053 UL 224 VW-1	no corrosion 0.5 max.  1000 min. Pass 90°C

**Specification references:** AMS-DTL-23053/5C, Class 1, Overexpanded (except wall thickness).  
 UL 224 File E70631 YDQS2.



915 Armorlite Drive  
 San Marcos, CA 92069

Telephone: (800) 758-3515  
 FAX: (800) 758-3517